

IBPS PO Preliminary Grand Test –IPP-171019

HINTS & SOLUTIONS

ANSWER KEY

1.(2)	21.(2)	41.(1)	61.(3)	81.(1)
2.(5)	22.(1)	42.(2)	62.(5)	82.(3)
3.(3)	23.(3)	43.(5)	63.(4)	83.(4)
4.(4)	24.(5)	44.(2)	64.(3)	84.(4)
5.(5)	25.(4)	45.(4)	65.(1)	85.(4)
6.(3)	26.(1)	46.(3)	66.(4)	86.(2)
7.(2)	27.(4)	47.(5)	67.(2)	87.(4)
8.(1)	28.(1)	48.(2)	68.(4)	88.(5)
9.(5)	29.(2)	49.(2)	69.(3)	89.(3)
10.(4)	30.(5)	50.(5)	70.(3)	90.(5)
11.(2)	31.(1)	51.(4)	71.(2)	91.(1)
12.(4)	32.(2)	52.(1)	72.(3)	92.(4)
13.(5)	33.(3)	53.(3)	73.(4)	93.(3)
14.(5)	34.(2)	54.(3)	74.(4)	94.(2)
15.(3)	35.(2)	55.(2)	75.(3)	95.(2)
16.(1)	36.(4)	56.(3)	76.(4)	96.(2)
17.(3)	37.(3)	57.(2)	77.(3)	97.(1)
18.(1)	38.(1)	58.(1)	78.(4)	98.(2)
19.(2)	39.(2)	59.(5)	79.(2)	99.(4)
20.(4)	40.(4)	60.(3)	80.(5)	100.(3)

HINTS & SOLUTIONS

- 1.(2) "will take a seat on the powerful, from the process" is the correct set of phrases to make the sentence grammatically correct.
- 2.(5) The given sentence is grammatically correct. Standoff means a deadlock between two equally matched opponents in a dispute or conflict.
- 3.(3) "has now gained, connectivity initiative" is the correct set of phrases to make the sentence grammatically correct. It is to be noted that the sentence is in Present Tense and in Passive form.
- 4.(4) "Providing gainful, for enabling people to improve" is the correct set of phrases to make the sentence grammatically correct.
- 5.(5) The sentence is grammatically correct. Since the sentence talks about the Past event, "when it was only" is the correct phrase to comply the sentence structure.
- 6.(3) "the largest audience country" is the correct phrase in context of the paragraph.
- 7.(2) "rankings" is the correct word replacement as it means having a specified rank in a hierarchy.
- 8.(1) "announced" is the correct word replacement as it means make a formal public statement about a fact, occurrence, or intention.
- 9.(5) "impressive" is the correct word in context of its usage in the paragraph. Hence (e) is the correct option.
- 10.(4) "active" is the correct word replacement as it means participating or engaged in a particular sphere or activity.
- 11.(2) Refer the first paragraph, "But for his philanthropic activities, he was interested in working at the intersection of urgent need and lasting impact." Hence only option (II) is correct in context of the passage.
- 12.(4) Refer the second paragraph, "According to Bain's "India Philanthropy Report 2017", India's philanthropy market has "matured" considerably.....amount of funds coming from individual philanthropists has grown sixfold in the past five years, from Rs6,000 crore in 2011 to Rs36,000 crore in 2016. Contributions from individual philanthropists have also grown faster than those coming from any other source, such as foreign aid, or from corporate social responsibility (CSR) activities." Hence both the statements (I) and (II) justify the maturity of India's philanthropic market.
- 13.(5) Read the third paragraph carefully, it can be easily inferred from there that all four statements are correct regarding India's UN-mandated development goals. Hence (e) is the correct option.
- 14.(5) Refer the fourth paragraph, all three statements can be easily inferred from there. Hence (e) is the correct option.
- 15.(3) Refer the last paragraph of the passage, "From the donor's point of view, the crux of effective philanthropy needs to be designing for maximum impact. First, a potential donor needs to decide where he wants his money to be spent— education, healthcare, disaster relief, public policy, arts and culture, etc." Hence both the statements (I) and (II) are correct in context of the passage.
- 16.(1) The author has tried his best in encouraging the development of the philanthropic sector by focusing on vivid areas of concern. Also the statement in the first paragraph, "This is an important conversation—one Indian philanthropist would do well to follow." further explains the encouraging, optimistic and supportive attitude of the author. Hence (a) is the correct option.
- 17.(3) Crux means the decisive or most important point at issue. Hence 'essence' is the word most similar in meaning to it. Stew means a state of great anxiety or agitation.
- 18.(1) Sustainable means conserving an ecological balance by avoiding depletion of natural resources. Tenable means able to be maintained or defended against attack or objection. Hence both are almost similar in meaning.
- 19.(2) Critical means having a decisive or crucial importance in the success, failure, or existence of something. Hence 'unimportant' is the word most opposite in meaning to it.
- 20.(4) Constraint means a limitation or restriction. Hence 'openness' is the word most opposite in meaning to it.
- 21.(2) "have come down with the increased" is the correct phrase to make the sentence grammatically correct as the sentence is in Present Tense. It is to be noticed that the speed of trucks can't be decreased as it is clearly mentioned that the highways have become clutter-free. Also, the phrasal verb "come down" means collapse or be demolished. Hence (b) is the correct option.

- 22.(1) "is the most effective way of staying" is the correct phrase to make the sentence grammatically correct as the sentence is in generalized and factual form. Thus the use of "could" or "can" is incorrect in this case. Moreover, the phrases connected with the conjunction "and" should be in similar form. Hence among the given options, only option (1) has the correct grammar structure to correctly fit into the sentence.
- 23.(3) "grew up in free India bearing the names of" is the correct phrase to make the sentence grammatically correct as the sentence refers to the event related to the past. If we go by options, options (1), (2) and (4) are not in accordance with correct grammar structure. Only option (3) possesses correct syntax to supplement its usage in the sentence. The phrasal verb "grew up" means became an adult.
- 24.(5) The given sentence is grammatically correct. It is to be noted that the sentence is not conditional and thus all the given options are incorrect.
- 25.(4) "apart from various goodies being dangled" is the correct phrase to make the sentence grammatically correct. Options (b) and (c) can be easily eliminated as they lack the correct syntaxes and similarly option (a) as the sentence is not conditional. Option (d) fits into the sentence quite correctly as it adds meaning to the sentence. The phrasal verb "apart from" means in addition to; as well as. Hence (d) is the correct option.
- 26.(1) "uncovering, limits" is the correct set of words that makes the sentence meaningful. Uncovering means discovering (something previously secret or unknown). Limit means a point or level beyond which something does not or may not extend or pass.
- 27.(4) "slashed, review" is the correct set of words that makes the sentence meaningful. Slashed means reduced (a price, quantity, etc.) greatly. Review means a formal assessment of something with the intention of instituting change if necessary.
- 28.(1) "amendments, facilitate" is the correct set of words that makes the sentence meaningful. Amendment means a minor change or addition designed to improve a text, piece of legislation, etc. Facilitate means make (an action or process) easy or easier.
- 29.(2) "capacity, undertake" is the correct set of words that makes the sentence meaningful. Capacity means the ability or power to do or understand something. Undertake means commit oneself to and begin (an enterprise or responsibility); take on.
- 30.(5) "publicized, hoped" is the correct set of words that makes the sentence meaningful. Publicized means gave out information about (a product, person, or company) for advertising or promotional purposes. Hope means want something to happen or be the case.
- 31.(1) Since, there are bats of six companies & balls of five companies, Hence, possible no. of pairs = $6 \times 5 = 30$
No. of favourable pairs = 5
Req. probability = $\frac{5}{30} = \frac{1}{6}$
- 32.(2) Possible ways are :
MRF BDM SS
1 4 1
Hence no. of ways = $20C_2 \times 6C_4 = 2850$
- 33.(3) Possible ways :
(i) First two Gun & Moore, last one diff.
(ii) First & third G & M, second one diff.
(iii) First diff., Last two G & M
Req. probability = $3 \times \frac{10 \times 9 \times 90}{100 \times 99 \times 98} = \frac{27}{1078}$
- 34.(2) Since out of $8 + 10 = 18$ balls, $4 + 6 = 10$ are defective.
Hence, req. probability = $\frac{{}^{10}C_3}{{}^{18}C_3} = \frac{120}{816} = \frac{5}{34}$
- 35.(2) No. of ways of choosing 3 balls of Kookabura 4 3 bats of SS = ${}^{12}C_3 \times {}^{18}C_3$
No. of ways of arranging them = $2 \times 3! \times 3! = 72$
Therefore, req. answer = $72 \times {}^{12}C_3 \times {}^{18}C_3$
- 36.(4) Number of males in city K = $\frac{40}{100} \times 20,000 = 8000$
Number of males who left city K = $\frac{40}{100} \times 8000 = 3200$
Number of males in city L = $\frac{60}{100} \times 25,000 = 15000$
Total number of males in city L after Males who joined city L = $15000 + 3200 = 18200$
Literate people from city L = $\frac{7}{10} \times 25,000 = 17,500$
Illiterate people from city M = $\frac{8}{10} \times 35,000 = 28,000$
 \therefore Percentage = $\frac{17500}{28000} \times 100 = 62.5\%$
- 37.(3) 30 percent of male from city M = $\frac{20}{100} \times 35,000 \times \frac{30}{100} = 2100$
 \therefore 2100 male from city M are illiterate
Female from city M who are illiterate = $\frac{4}{5} \times 35,000 - 2100 = 28,000 - 2100 = 25,900$
 \therefore Ratio = $\frac{2100}{25900} = 21 : 259$
- 38.(1) Required average = $\frac{15000+7500+28000+24000+27500}{5} = 20400$
- 39.(2) Since the illiterate males from city K and city L cannot be determined.
- 40.(4) $4x + 3y = 40 \dots (i) \times 6$
 $6x - 5y = 22 \dots (ii) \times 4$
 $\frac{24x + 18y = 240}{-24x - 20y = -88}$
 $\frac{38y = 152}{152} = 4$
 $\therefore y = \frac{152}{38} = 4$
Putting the value of y in equation (i), we have
 $4x + 3 \times 4 = 40$
or, $4x = 28$
 $\therefore x = 7$
Hence, $x > y$
- 41.(1) $2x^2 - 4x - \sqrt{13}x + 2\sqrt{13} = 0 \dots (i)$
or, $2x(x - 2) - \sqrt{13}(x - 2) = 0$
or, $(x - 2)(2x - \sqrt{13}) = 0$
 $\therefore x = 2, \frac{\sqrt{13}}{2}$
 $10y^2 - 18y - 5\sqrt{13}y + 9\sqrt{13} = 0 \dots (ii)$
or, $2y(5y - 9) - \sqrt{13}(5y - 9) = 0$
or, $(2y - \sqrt{13})(5y - 9) = 0$
 $\therefore y = \frac{9}{5}, \frac{\sqrt{13}}{2}$
Hence, $x \geq y$
- 42.(2) $6x^2 + 17 - 3x^2 - 20 = 0 \dots (i)$
or, $3x^2 = 3$
 $\therefore x \pm 1$
 $5y^2 - 12 - 9y^2 + 16 = 0 \dots (ii)$
or, $4y^2 = 4$
 $\therefore y = \pm 1$
Hence $x = y$
- 43.(5)

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44.(2) $13x + 17 = 134 \dots (i)$
 $\therefore x = \frac{117}{13} = 9$
 $(361)^{\frac{1}{2}}y^2 - 270 = 1269$
 or, $19y^2 = 1629 + 270 = 1539$
 $y^2 = \frac{1539}{19} = 81$
 $\therefore y \pm 9$

45.(4) $64x^2 = 256 \dots (i)$
 or, $x^2 = 4$
 $\therefore x = \pm 2$
 $14y^3 - 12y^3 = 16 \dots (ii)$
 or, $2y^3 = 16$
 $\therefore y^3 = 8$
 $\therefore y = 2$
 Hence $x \leq y$

46.(3) $\frac{50}{7}\% \times \frac{25}{3}\% \times (?)^2 = \frac{100}{21}\% \times 2$
 $(?)^2 = 16 \Rightarrow ? = \pm 4$

47.(5) $[3 + 9 + 9] + \frac{2}{3} + \frac{1}{3} + \frac{1}{9} = (? + 5 + 2 + 1) + \frac{1}{2} + \frac{1}{3} + \frac{1}{6} + \frac{1}{9}$
 $\Rightarrow 21 + \frac{12 + 6 + 2}{18} = (? + 8) + \frac{9 + 6 + 3 + 2}{18}$
 $21 + \frac{20}{18} - 8 - \frac{20}{18} = ?$
 $? = 13$

48.(2) $90 + 37.5 = ? \times 3 + 81$
 $? = \frac{46.5}{3} = 15.5$

49.(2) $\left[\frac{282.1}{13} \right] \div 14 = \frac{[21.7]}{14} = 1.55$

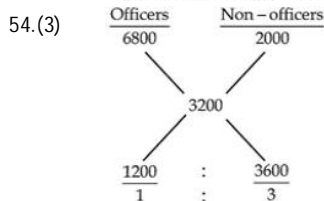
50.(5) $? = 295.4 - 106.4 = 189$

51.(4) Price after discount = $600 \times \frac{90}{100} \times \frac{95}{100} = 513$
 Customer have to pay = $513 + 513 \times \frac{5}{100}$

52.(1) $513 + 25.65 = \text{Rs } 538.65$
 $P \times 13\% \times 8 \text{ years} = 6500$
 $\Rightarrow P \times 104\% = 6500$
 $\Rightarrow P = \text{Rs } 6250$
 $C.I = 6250 \left(1 + \frac{8}{100} \right)^2 - 6250$
 $C.I = 6250 \times \frac{108}{100} \times \frac{108}{100} - 6250$
 $C.I = 7290 - 6250$
 $C.I = 1040$

53.(3) Let, Joe's present age = $2x$
 \Rightarrow Father's present age = $7x$
 Now,
 $\frac{2x + 3}{7x} = \frac{5}{14}$
 $\Rightarrow x = 6$

\Rightarrow Joe's present age = $2x = 12$ years



No. of non-officers = $\frac{3}{1} \times 5 = 15$

55.(2) (4 days) $(2M + 7B) \xrightarrow{+3 \text{ unit/day}}$ 12 unit

(3 days) $(4M + 4B) \xrightarrow{+4 \text{ unit/day}}$
 $2M + 7B = 3$
 $4M + 4B = 4$

After solving, $5M = 4$

$\Rightarrow M = 4/5$

\Rightarrow Required time = $\frac{12}{4/5} = 15$ days

56.(3) Let,
 Speed of stream = s
 Speed of boat in still water = z
 During downstream, speed = $s + z$
 During upstream, speed = $z - s$

Now,

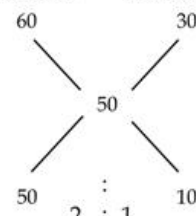
$\frac{24}{z-s} + \frac{28}{z+s} = 6$

$\frac{30}{z-s} + \frac{21}{z+s} = \frac{13}{2}$

From option we get,

$S = 4 \text{ km/hr}, z = 10 \text{ km/hr}$

First barrel Second barrel



58.(1) No. of ways = ${}^7C_5 \times {}^3C_2 = \frac{7 \times 6}{2 \times 1} \times 3 = 63$

59.(5) Let,
 Breadth = x
 Length = $x \times \frac{115}{100} = \frac{23x}{20}$

ATQ,

Area of rectangle = 460

$\Rightarrow x \times \frac{23x}{20} = 460$

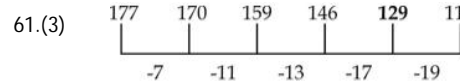
$\Rightarrow x^2 = 20 \times 20$

$\therefore x = 20$

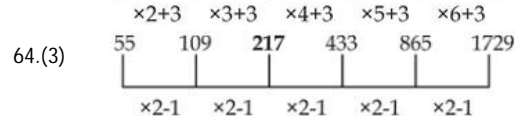
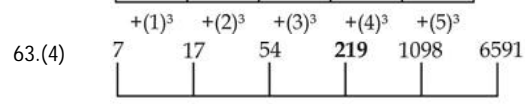
\therefore breadth = 20 m

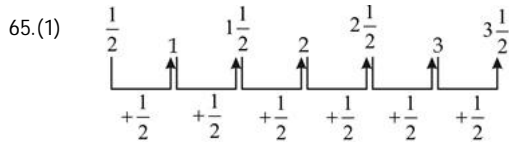
60.(3) Required probability = $\frac{{}^8C_2 \times {}^4C_1 \times {}^5C_2}{{}^{17}C_5}$

$= \frac{28 \times 4 \times 10}{17 \times 16 \times 15 \times 14 \times 13} \times 120 = \frac{40}{221}$



Prime numbers are being subtracted in sequence.

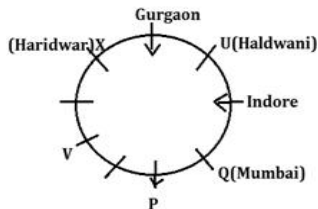




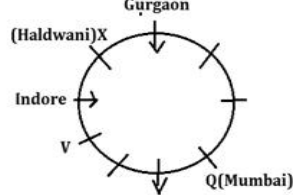
66-70. From the given condition, the one who goes Gurgaon faces towards centre and P faces opposite direction of the one who goes Gurgaon, it means P faces outside the centre. The one, who goes Indore faces to the centre and sits 2nd place away from P, hence the one who goes Indore sits either 2nd left or 2nd right of P.

From the conditions, X and U go to the city which starting letter is H (So X and U go Haridwar and Haldwani). V sits 60° clockwise with respect to P. The one who goes Haldwani and the one who goes Indore are immediate neighbours and V is not from Haldwani. The one who goes Gurgaon is immediate neighbor of the one who goes Haldwani. Hence we will get 2 possible cases- case 1 and case 2, which are shown below. X sits 2nd place away from V. In case- 1, U goes to Haldwani and X goes to Haridwar but in case- 2, X goes Haldwani and U goes to Haridwar. Q goes Mumbai and sits 180° to the X.

Case-1

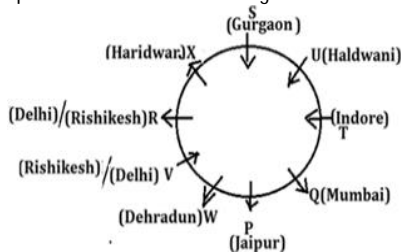


Case-2



There is an angle of 135° between X and the one who goes Indore, from this condition Case-2 will be cancelled out.

With the rest conditions, the one, who goes Dehradun, is 3rd to the left of the one, who goes Haridwar, It is clear that X will face outside to the centre. R is not an immediate neighbor of P and the one, who goes Haldwani, so only 1 place is remaining for R, R's position will be fixed. The persons, who go Delhi and Rishikesh are immediate neighbours. Both the immediate neighbours of P, face same direction of P. R faces outside to the centre, from this condition we will have five persons who face outside, it means rests will face inside the centre because it is given that only 4 persons face to the centre. W faces outside the centre, now there is only one possibility for W that W will go to Dehradun. T doesn't go Gurgaon, hence T will go Indore. P goes Jaipur it will be fixed. We will get final answer.



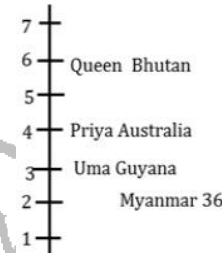
- 66.(4) 67.(2) 68.(4) 69.(3) 70.(3)

- 71.(2) I. D > E (False) II. K < E (True)
 72.(3) I. R = P (False) II. R > P (False)
 73.(4) I. L > Z (False) II. Z > Q (False)
 74.(4) I. Q ≠ R (False) II. Q \$ R (False)
 75.(3) I. T ≠ Q (False) II. Q * T (False)

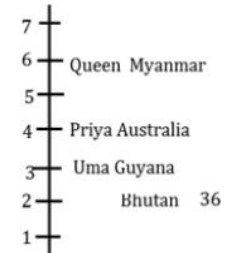
76-80. From the given conditions, only three people live above the floor on which Priya lives, it means Priya lives on 4th floor. The one who lives on floor 2, her age is a perfect square,

there is only one number is perfect square that is 36. Only one person lives between Priya and the one belongs to Myanmar, hence the one who belongs to Myanmar lives either 6th or 2nd floor. Only three people live between the ones belong to Myanmar and Bhutan. Uma lives immediately below the one who belongs to Australia. The one belongs to Australia lives on an even-numbered floor, it means the one who belongs to Australia lives on 4th floor. Only two people live between Queen and the one who belongs to Guyana. The one, who belongs to Guyana lives below the floor on which Queen lives, hence Queen will live on 6th floor and Uma will belong to Guyana. From these conditions two possible cases will be there, which are shown below.

Case-1



Case-2



But from the condition, Tisha lives immediately above Riya and Tisha does not belong to Bhutan. Case 2 will be cancelled out because there are no possible places for Tisha and Riya.

From the rest conditions, the one who lives on top floor, her age is half of the age of Tisha. Tisha age is 36, hence the one live on top floor her age will be 18.

Sagun does not live immediately above or immediately below Priya, so Sagun lives on top floor and Veenu will live on 5th floor. The one who belongs to Uganda does not live immediately above or immediately below Queen, hence it is clear that Riya belongs to Uganda. The one who lives below Uma, her age is divisible by 6 but it is not a lowest number, it means Riya age will be 24 because only one number is left which is divisible by 6.

Veenu does not belong to Poland, means Sagun is from Poland and Veenu is from New-Zealand. The one who is from New-Zealand, her age is lowest prime number, Veenu age will be 17. Queen is 3 years older than Priya, there is only one possibility that Queen's age will be 15 and Priya age will be 12. It is clear that Uma age will be 19. Now we will get final answer.

Floor	People	Country	Age
7	Sagun	Poland	18
6	Queen	Bhutan	15
5	Veenu	New-Zealand	17
4	Priya	Australia	12
3	Uma	Guyana	19
2	Tisha	Myanmar	36
1	Riya	Uganda	24

- 76.(4) 77.(3) 78.(4) 79.(2) 80.(5)

81-85.

Step1: From the given definite conditions: - U watches a movie on Thursday. Only one person watches movie between U and the one who watches AVENGERS. P watches movie immediately after the one who watches AVENGERS. Only three people watch movie between P and the one who watches Mechanic. So from the given statements there will be two cases where P and the one who watches Avengers can sit.

Case 1:-

Days	Person	Movies
Monday		
Tuesday		Avengers
Wednesday	P	
Thursday	U	
Friday		
Saturday		
Sunday		Mechanic

Case 2:-

Days	Person	Movies
Monday		
Tuesday		
Wednesday		Mechanic
Thursday	U	
Friday		
Saturday		Avengers
Sunday	P	

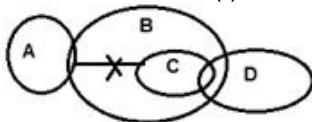
Step 2:- Only two people watch movie between the one who watches Mechanic and W, but in the case 1st it is not possible as U is already there on the place. So the case 1 is eliminated. Now the one who watches X-Men Classic watches movie before W but after Thursday. So X-men Classic is placed on Friday. The one who watches Thor 3 watches movie immediately before the one who watches Baywatch, so there is one place for the one who watches Thor 3 is on Monday and Baywatch is on Tuesday. The one who watches Baby watches movie immediately before Q. V does not watch movie on Tuesday. So Q watches movie on Friday and V watches movie on Wednesday. P watches wonder woman, hence we get our final answer.

Days	Person	Movies
Monday	R	Thor 3
Tuesday	T	Baywatch
Wednesday	V	Mechanic
Thursday	U	Baby
Friday	Q	X-Men Classic
Saturday	W	Avengers
Sunday	P	Wonder woman

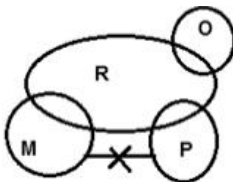
- 81.(1)
- 83.(4)
- 86.(2)

- 82.(3)
- 84.(4)

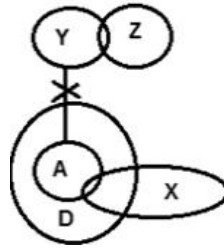
- 85.(4)



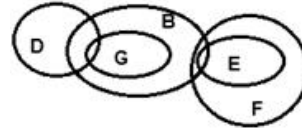
- 87.(4)



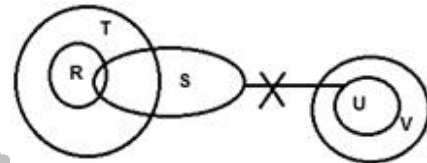
- 88.(5)



- 89.(3)



- 90.(5)



- 91-95.

First of all, in this puzzle, there is some direct condition i.e. A belongs to Lucknow. The one, who has Toshiba laptop is N. D has HP laptop. The one who has Compaq belongs to Patna. P does not belong to Delhi and Kolkata but has Apple laptop. J has either Lenovo or HCL laptop. The one who belongs to Kolkata is either N or J. W belongs to Kanpur but does not have HCL and Lenovo laptop. The one, who belongs to Goa, has Lenovo laptop. A does not have Lenovo. Z has Compaq laptop.

Person	City	Brand's Name
A	Lucknow	
N		Toshiba
D		HP
Z	Patna	Compaq
P		Apple
J	Goa	Lenovo
W	Kanpur	

Now, it is given that, the one who belongs to Kolkata, does not have Lenovo and HCL laptop. The one who belongs to Kolkata is either N or J. From these two conditions, we can see that J belongs to Goa, so automatically N will belong to Kolkata.

Now, W belongs to Kanpur but does not have HCL and Lenovo laptop. In this above table, we can see that HCL and Sony laptop is left so, W does not have HCL, So he will have Sony Laptop. And automatically A will have HCL laptop. And D has HP laptop but does not belong to Chennai, which means D will belong to Delhi and P will belong to Chennai.

Person	City	Brand's Name
A	Lucknow	HCL
N	Kolkata	Toshiba
D	Delhi	HP
Z	Patna	Compaq
P	Chennai	Apple
J	Goa	Lenovo
W	Kanpur	Sony

- 91.(1)

- 93.(3)

- 96-100.

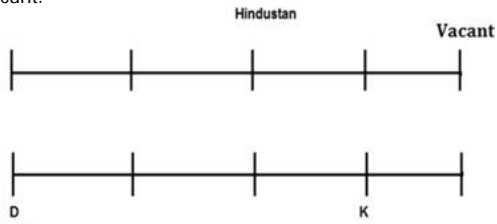
- 92.(4)

- 94.(2)

- 95.(2)

In this seating arrangement, We should remember one thing that one seat is vacant in each row, now we place all the given variables at two parallel rows such that The one, who sits in the middle of the row 1, reads Hindustan. The one who faces the immediate neighbor of the one who reads Hindustan is K. K sits at that position (Seat) which is immediate right of the one who faces the one who reads Hindustan. There are two seats between K and D, who reads

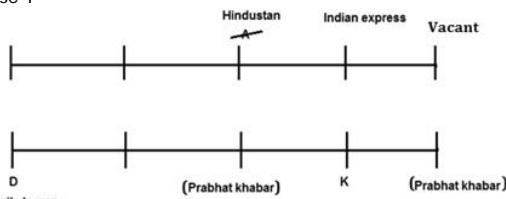
Dainik Jagran. The seat which is diagonally opposite to D is Vacant.



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Now, the immediate neighbor of K, reads Prabhat Khabar. The one who reads Indian express faces the seat which is adjacent to the one, who reads Prabhat Khabar. A sits immediate right of the one who reads Indian express. A and R do not seat at the middle of row. From these conditions, there are two cases-

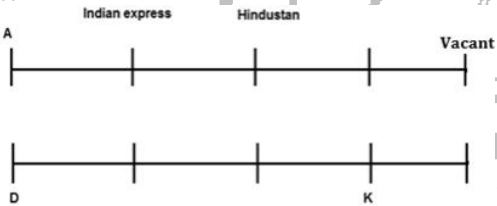
Case 1



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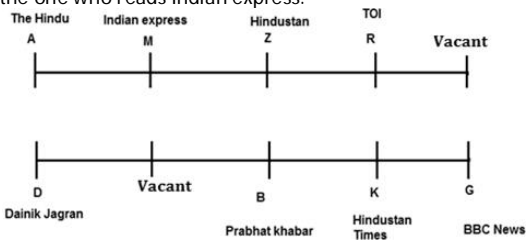
In this arrangement, we can see that A can't be sit at the middle of the row, so Case 1 will be eliminated and Case 2 will continued.

Case 2



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In this arrangement, the one who reads Hindustan Times sits immediate left of the one who reads BBC News. We can see that there is a vacant seat in row 2, is between D and the one who reads Prabhat Khabar. M sits 2nd right from the one who reads TOI. G does not sit at the middle. A and R do not seat at the middle of row. The one who reads The Hindu sits at extreme end and he is immediate neighbor of the one who reads Indian express.



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96.(2)
98.(2)

97.(1)
99.(4)

100.(3)